

BEST AVAILABLE COPY

-3-

1510.007A

Amendment to the Claims:

In compliance with the Revised Amendment Format, a complete listing of claims is provided herein.

1-16. (Cancelled)

17. (New) A stringed musical instrument pickup comprising:

at least one string-sensing coil, and

at least one noise-sensing coil electrically coupled to the string sensing coil, the noise-sensing coil comprising a core, the core comprising steel laminations or a ferrite material, whereby eddy current losses are reduced when a voltage is induced in the noise-sensing coil in order to cancel a noise voltage induced in the string-sensing coil.

18. (New) The stringed musical instrument pickup of claim 17, wherein the core of the noise sensing coil comprises steel laminations.

19. (New) The stringed musical instrument pickup of claim 18, wherein the noise-sensing coil further comprises:

at least one end plate extending transversely of at least one end of the core;

and

a coil of copper wire wound on the core.

20. (New) The stringed musical instrument pickup of claim 19, wherein the at least one end plate comprises two end plates extending transversely of opposite ends of the core.

21. (New) The stringed musical instrument pickup of claim 20, wherein the steel laminations are H-shaped, the bridges of each H forming the core and the legs of the H forming the two endplates.

BEST AVAILABLE COPY

--4-

1510.007A

22. (New) The stringed musical instrument pickup of claim 18, wherein the steel laminations are electrically insulated from one another.

23. (New) The stringed musical instrument pickup of claim 18, wherein the steel laminations constitute core pins of substantially rectangular cross-section.

24. (New) The stringed musical instrument pickup of claim 23, wherein the core pins are substantially square in cross-section and are interposed between outer core pins which are of substantially circular cross-section.

25. (New) The stringed musical instrument pickup of claim 17, wherein the core of the noise-sensing coil comprises a ferrite material.

26. (New) The stringed musical instrument pickup of claim 25, wherein the ferrite material is a composite ferrite material.

27. (New) The stringed musical instrument pickup of claim 25, wherein the core of the noise-sensing coil further comprises:

at least one end plate extending transversely of at least one end of the core;
and

a coil of copper wire wound on the core.

28. (New) The stringed musical instrument pickup of claim 26, wherein the at least one end plate comprises two end plates extending transversely of opposite ends of the core.

29. (New) The stringed musical instrument pickup of claim 28, wherein the core and end plates of the noise-sensing coil are integrally formed from composite ferrite material.

30. (New) The stringed musical instrument pickup of claim 17, further comprising steel side-walls adjacent to the string-sensing coil.

BEST AVAILABLE COPY

-5-

1510.007A

31. (New) The stringed musical instrument pickup of claim 30, wherein the string-sensing coil has between 3,000 and 8,000 turns of 0.050mm or 0.056mm wire, and wherein the noise-sensing coil has between 1,000 and 4,000 turns of 0.063mm or 0.071mm wire.

32. (New) The stringed musical instrument pickup of claim 30, wherein the noise-sensing coil is positioned adjacent the string-sensing coil.

33. (New) The stringed musical instrument pickup of claim 17, wherein the string-sensing coil further comprises a core, and wherein the core of the noise-sensing coil and the core of the string-sensing coil each are connected to two end plates extending transversely of each end of each core to form a bobbin or former for each coil.

34. (New) The stringed musical instrument pickup of claim 33, wherein each coil further comprises copper wire wound on the bobbin or former.

35. (New) The stringed musical instrument pickup of claim 34, wherein the bobbin or former of the string-sensing coil further comprises a plurality of steel pole pieces extending in use in an axial direction through the core toward the instrument strings and away from the bobbin or former through the noise-sensing coil; and the stringed musical instrument pickup further comprises a magnetizing means, the steel pole pieces transferring magnetic fields therefrom to the instrument strings.

36. (New) The stringed musical instrument pickup of claim 35, further comprising steel side-walls adjacent to the string-sensing coil.

37. (New) The stringed musical instrument pickup of claim 35, wherein the pole pieces extend through the stringed musical instrument pickup to a single bar magnet.

38. (New) The stringed musical instrument pickup of claim 35, wherein the pole pieces extend through the core of the string-sensing coil and wherein the magnetizing means is a pair of transversely spaced bar magnets.

BEST AVAILABLE COPY

-6-

1510.007A

39. (New) The stringed musical instrument pickup of claim 35, wherein the noise-sensing coil is positioned below the string-sensing coil.

40. (New) A stringed musical instrument pickup comprising:

at least one string-sensing coil, and

at least one noise-sensing coil electrically coupled to the string sensing coil.

the noise-sensing coil comprising a core, the core comprising magnetically permeable composite material which inhibits eddy currents, whereby eddy current losses are reduced when a voltage is induced in the noise-sensing coil in order to cancel a noise voltage induced in the string-sensing coil.